Competitive Edge
Chemical engineering students have taken home more than two dozen national and regional awards in engineering competitions over the past 20 years.

Known for Engineering
Florida Tech is listed among the Fiske Guide’s “Engineering/Top Technical Institutes” and Parade Magazine’s College A-List in Engineering.

Did You Know?
The average starting salary for chemical engineering majors in 2015 was $67,700. (Source: National Association of Colleges and Employers)

Chemical engineering is the study and application of chemical principles to industrial processes. Chemical engineering students build a strong foundation in mathematics, chemistry and the fundamentals of engineering. Special electives allow students to broaden their knowledge in technical fields such as materials science, nuclear technology, nanotechnology, environmental, bioengineering and petroleum engineering.

Why Chemical Engineering at Florida Tech?
• The size of the program allows for small classes and personalized student advisement.
• Professors are accomplished researchers and career professors; most chemical engineering faculty have been teaching at Florida Tech for more than 20 years.
• The program’s emphasis on group project-oriented learning prepares students for entry into industry, in which chemical engineers typically work as part of interdisciplinary teams.
• State-of-the-art facilities give students hands-on experience with high-tech instruments.
• The opportunity to specialize in unique and exciting subfields of chemical engineering helps students tailor their education based on their professional aspirations and preferences.
• The amount and significance of national and regional awards and accomplishments achieved by undergraduate chemical engineering students at Florida Tech is among the very best in the nation.
• Our location in the center of the Space Coast puts us in close proximity to a wealth of high-tech companies interested in hiring our students for hands-on internships and research opportunities.

QUICK FACTS
• The Bachelor of Science degree in Chemical Engineering is accredited by the Engineering Accreditation Commission of ABET, www.abet.org.
• Students may choose to specialize in alternative energy engineering, bioengineering, business, environmental engineering, materials science and engineering, nuclear technology, nanotechnology and petroleum engineering.
• Our nanoscience/nanotechnology minor is extremely popular among our students and their prospective employers.
Chemical Engineering

Chemical engineers are concerned with the design, construction and operation of machines and plants that perform chemical reactions to solve practical problems and make useful products.

What to Expect
Chemical engineering students may expect small classes and the opportunity to work on research projects with faculty in the areas of chemical engineering, chemistry and biological sciences. The program’s reputation and proximity to a variety of high-tech companies means you can also expect to find a great internship and build valuable on-the-job experience.

Facilities
Part of what makes Florida Tech a great place to study chemical engineering is the F. W. Olin Engineering Complex, which features more than 10,000 square feet of laboratory space. This state-of-the-art facility reflects Florida Tech’s commitment to academic excellence and cutting-edge programs and provides an outstanding learning environment for undergraduates.

Faculty Research Areas
The chemical engineering faculty is diverse, with research interests that span the field. These include:
- nanomaterials and quantum dots
- alternative energy, chemical sensors
- mathematical modeling of chemical processes
- polymer-based solar cells and fuel cells
- experimental, high-temperature thermodynamics
- algae as a biomass fuel source
- electronic "noses" for identifying gases
- micro-channel reactors for the production of liquid fuel
- biologically inspired materials, tissue engineering, regenerative medicine

Careers
Students who graduate with a degree in chemical engineering are likely to find careers focused on the processes that turn raw materials into valuable products. Graduates of Florida Tech’s chemical engineering program have gone on to work for:
- Baker-Hughes
- NASA, Boeing, Northrop Grumman
- Pfizer, AstraZeneca, Proctor & Gamble
- Duracell, GE, Florida Solar Energy Center
- Mars/M&M, Tropicana, Kraft Foods
- Mobil, Exxon, Chevron Texaco

Graduate Study
Graduates of the chemical engineering program at Florida Tech are prepared to pursue advanced degrees in chemical engineering and related fields and have gone on to study at graduate schools such as:
- Columbia University
- Cornell University
- Georgia Institute of Technology
- Massachusetts Institute of Technology
- Northwestern University
- Purdue University
- Stanford University

Student Organizations
Florida Tech has student chapters of the American Institute of Chemical Engineers, American Chemical Society, Society of Women Engineers and multiple honor societies.

Senior Design
As seniors, all chemical engineering students complete a capstone project that challenges them to design, develop, prototype and present a complex chemical plant.

Chem-E Car
Students can choose to collaborate on the annual American Institute of Chemical Engineers (AIChE) Chem-E Car competition, for which they design and build a "green" car that operates by chemical means.

WISE Wow!
The chemical engineering program was the first academic program in the U.S. to have two students selected in the nationwide competition for the prestigious Washington Internships for Students of Engineering (WISE) program.

Florida Institute of Technology
High Tech with a Human Touch™

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